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- with international search report
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A. CLASSIFICATION OF SUBJECT MATTER
1PC 7 C07K14/47 C07K14/705 C07K16/18 C12N15/12 C07K14/78 A61K38/16 G01N33/50 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C07K IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, EMBL, STRAND, BIOSIS C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages 3,6-8, DATABASE EMBL [Online] Χ European Molecular Biology Organisation; 11-14 Acc. No. HSAA75, HILLIER ET AL.: "z180d02.s1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:510915 31, mRNA sequence" XP002165218 the whole document Patent family members are listed in annex. Further documents are listed in the continuation of box C. "T" later document published after the international filing date or priority date and not in conflict with the application but Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "E" earlier document but published on or after the international "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use. exhibition or ments, such combination being obvious to a person skilled other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 1 7, 08, 01 16 May 2001 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 551 epo nl. Steffen, P Fax: (+31-70) 340-3016

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International Application No PCT/US 00/32990

	A DOCUMENTS CONSIDERED TO BE RELEVANT			
	ntion) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Helevani to claim No.		
P,X	DATABASE EMBL [Online] European Molecular Biology Organisation; Acc. No. AF238255, 12 April 2000 (2000-04-12) LIU ETAL.: "Homo sapiens mixed lineage kinase mRNA, complete cds." XP002165219 See also related EMBL Database entries AF251441; AB030034; AB049733 for genes encoding the same protein the whole document -& LIU ET AL.: "Cloning and expression of ZAK, a mixed-lineage kinase-like protein containing a leucine-zipper and a sterile-alpha motif." BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 274, 11 August 2000 (2000-08-11), pages 811-816, XP002167497 the whole document -& DATABASE EMBL [Online] European Molecular Biology Organisation; Acc. No. AF251441, 27 April 2000 (2000-04-27) MCNEE ET AL.: "Cloning and Characterization of AZK, a mixed-lineage kinase containing a sterile-alpha motif" XP002167498 the whole document -& DATABASE EMBL [Online] European Molecular Biology Organisation; Acc. No. AB030034, 25 August 2000 (2000-08-25) ABE AND UEDA: "Placible mixed lineage kinase derived from LAK cell" XP002167499 the whole document -& DATABASE EMBL [Online] European Molecular Biology Organisation; Acc. No. AB049733, 13 October 2000 (2000-10-13) GOTHO ET AL:: "Identification and Characterization of a Novel MAP Kinase Kinase Kinase, MLTK" XP002167500 the whole document	1-19,22, 25-28		
E	WO 00 73469 A (PLOWMAN GREGORY D ;SUGEN INC (US); WHYTE DAVID (US); MARTINEZ RICA) 7 December 2000 (2000-12-07) SEQ ID NO's 201 & 82 (AA232253 H) and description page 116, lines 6-20 page 74 -page 130; figures 1T,2MMM,2NNN	1-19,22, 25-28		
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	tion) DOCUMENTS CONSIDERED TO BE RELEVANT			
C.(Continua Category - [Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
A	WO 99 63088 A (BAKER KEVIN ; CHEN JIAN (US); GENENTECH INC (US); YUAN JEAN (US); G) 9 December 1999 (1999-12-09) the whole document			
А	DATABASE EMBL [Online] European Molecular Biology Organisation; Acc. No. AF193795, 2 November 1999 (1999-11-02) EDGAR AJ AND POLACK JM: "Homo sapiens vacuolar sorting protein VPS29/PEP11 mRNA, complete cds." XP002165220 the whole document			
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International application No. PCT/US 00/32990

B x I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Ctaims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Decause they are dependent claims and are not drafted in accordance with the second and third sentences of Aule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
 As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. Y No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims: it is covered by claims Nos.:
1-19,22,25-28 all partly
<u> </u>
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search lees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 1 and the corresponding polynucleotide of SEQ ID NO: 22.

2. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 2 and the corresponding polynucleotide of SEQ ID NO: 23.

3. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 3 and the corresponding polynucleotide of SEQ ID NO: 24.

4. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 4 and the corresponding polynucleotide of SEQ ID NO: 25.

5. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 5 and the corresponding polynucleotide of SEQ ID NO: 26.

6. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 6 and the corresponding polynucleotide of SEQ ID NO: 27.

7. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 7 and the corresponding polynucleotide of SEQ ID NO: 28.

8. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

restricted to a polypeptide of SEQ ID NO: 8 and the corresponding polynucleotide of SEQ ID NO: 29.

9. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 9 and the corresponding polynucleotide of SEQ ID NO: 30.

10. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 10 and the corresponding polynucleotide of SEQ ID NO: 31.

11. Claims: 1-19,22,25-28 (all partly)i

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 11 and the corresponding polynucleotide of SEQ ID NO: 32.

12. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 12 and the corresponding polynucleotide of SEQ ID NO: 33.

13. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 13 and the corresponding polynucleotide of SEQ ID NO: 34.

14. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 14 and the corresponding polynucleotide of SEQ ID NO: 35.

15. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 15 and the corresponding polynucleotide of SEQ ID NO: 36.

16. Claims: 1-19,22,25-28 (all partly)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 16 and the corresponding polynucleotide of SEQ ID NO: 37.

17. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 17 and the corresponding polynucleotide of SEQ ID NO: 38.

18. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 18 and the corresponding polynucleotide of SEQ ID NO: 39.

19. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 19 and the corresponding polynucleotide of SEQ ID NO: 40.

20. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 20 and the corresponding polynucleotide of SEQ ID NO: 41.

21. Claims: 1-19,22,25-28 (all partly)

Polypeptides, polynucleotides, methods and compositions restricted to a polypeptide of SEQ ID NO: 21 and the corresponding polynucleotide of SEQ ID NO: 42.

information on patent family members

International Application No PCT/US 00/32990

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